

**TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. 371**U.S. APPLICATION NO. (If known, see 37 CFR 1.5  
Unassigned**10/530049**INTERNATIONAL APPLICATION NO.  
PCT/JP02/10375INTERNATIONAL FILING DATE  
October 4, 2002

PRIORITY DATE CLAIMED

**TITLE OF INVENTION**

RAMAN AMPLIFICATION SYSTEM UTILIZING MODULATED SECOND-ORDER RAMAN PUMPING

**APPLICANT(S) FOR DO/EO/US**

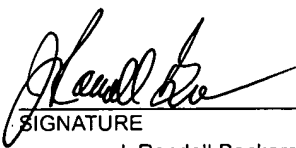
Rainer HAINBERGER

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☐ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☒ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☐ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

**Items 11 to 20 below concern document(s) or information included:**

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☐ A preliminary amendment.
14. ☐ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information: Copy of the Notification of the International Application Number and of International Filing Date; Copy of the Notification of Receipt of Search Copy; Copy of the Notification of Transmittal of the International Search Report.

|   |              |  |            |  |                 |
|---|--------------|--|------------|--|-----------------|
| U.S. APPLICATION NO. (if known, see 37 CFR 1.5)<br>Unassigned, <b>10/E30049</b>   |              | INTERNATIONAL APPLICATION NO.<br>PCT/JP02/10375  |            | ATTORNEY'S DOCKET NUMBER<br>1826 1063<br><b>JG17 Rec'd PCT/PTO 04 APR 2005</b>   |                 |
| 21. <input checked="" type="checkbox"/> The following fees are submitted:   |              |  |            | APPLICANT USE  | OFFICE USE ONLY |
| <input checked="" type="checkbox"/> a) Basic National Fee..... \$300.00   |              |  |            | \$300.00   |                 |
| <input checked="" type="checkbox"/> b) Examination Fee..... \$200.00  |              |  |            | \$200.00   |                 |
| <input checked="" type="checkbox"/> c) Search Fee..... \$500.00   |              |  |            | \$500.00   |                 |
| <b>TOTAL OF ABOVE CALCULATIONS = \$1000.00</b>  |              |  |            | \$1000.00  |                 |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each addition 50 sheets of paper or fraction thereof.  |              |  |            |  |                 |
| Total Sheets  | Extra Sheets | Number of each additional 50 or fraction thereof | Rate       |  |                 |
| * - 100 =   | */50=        |  | X 250.00   |  |                 |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).  |              |  |            | \$   |                 |
| CLAIMS  | NUMBER FILED | NUMBER EXTRA                                     | RATE       | \$   |                 |
| Total claims  | 14- 20 =     |  | x \$50.00  | \$   |                 |
| Independent claims  | 6- 3 =       | 3  | X \$200.00 | \$600.00   |                 |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)   |              |  | + \$360.00 | \$   |                 |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>  |              |  |            | <b>\$1600.00</b>   |                 |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.  |              |  |            | \$   |                 |
| <b>SUBTOTAL =</b>   |              |  |            | <b>\$1600.00</b>   |                 |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).   |              |  |            | \$   |                 |
| <b>TOTAL NATIONAL FEE =</b>   |              |  |            | <b>\$1600.00</b>   |                 |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +  |              |  |            | \$   |                 |
| <b>TOTAL FEES ENCLOSED =</b>  |              |  |            | <b>\$1600.00</b>   |                 |
| Amount to be refunded:  |              |  |            | \$   |                 |
| Amount to be charged:   |              |  |            | \$   |                 |
| a. <input checked="" type="checkbox"/> A check in the amount of \$1600.00 to cover the above fees is enclosed.<br>b. 1 Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.<br>A duplicate copy of this sheet is enclosed.<br>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>19-3935</u> . A duplicate copy of this sheet is enclosed.<br>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038. |              |  |            |  |                 |
| <b>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.</b>  |              |  |            |  |                 |
| SEND ALL CORRESPONDENCE TO:<br><br>Staas & Halsey LLP<br>1201 New York Avenue, N.W., Suite 700<br>Washington, DC 20005  |              |  |            | <br>SIGNATURE<br>J. Randall Beckers<br>NAME<br>30,358<br>REGISTRATION NUMBER |                 |